

Intro

Machine Learning Course

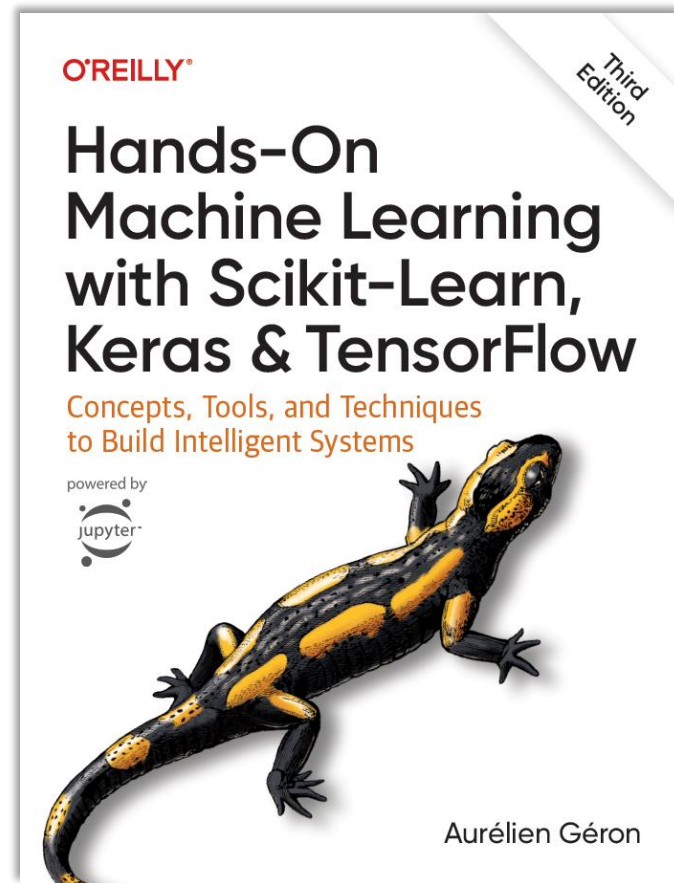
Saeed Mohagheghi

Course Resources

- Source Book:

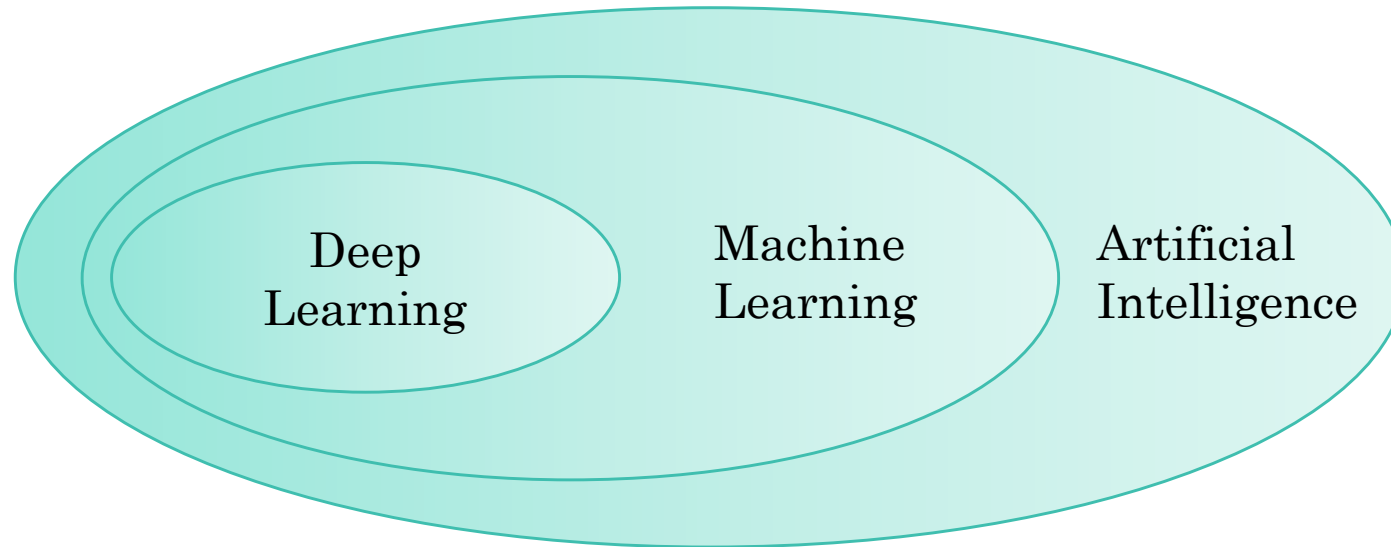
GitHub Repository:

https://github.com/DaneshJoy/MachineLearning_Practical

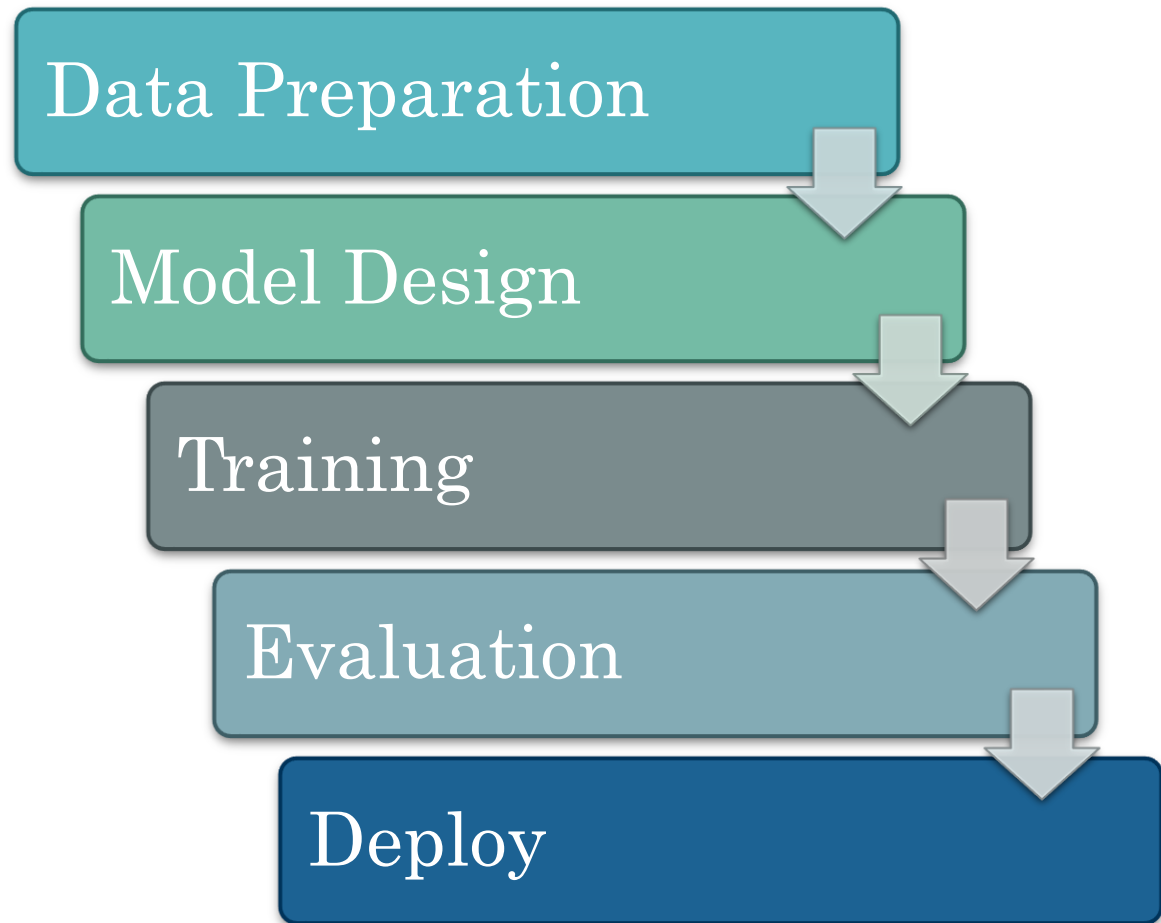


What is ML?

- “ **Models** with the ability to **Learn** (from data) without being explicitly programmed ”



ML Pipeline



ML Pipeline

- ML Cycle

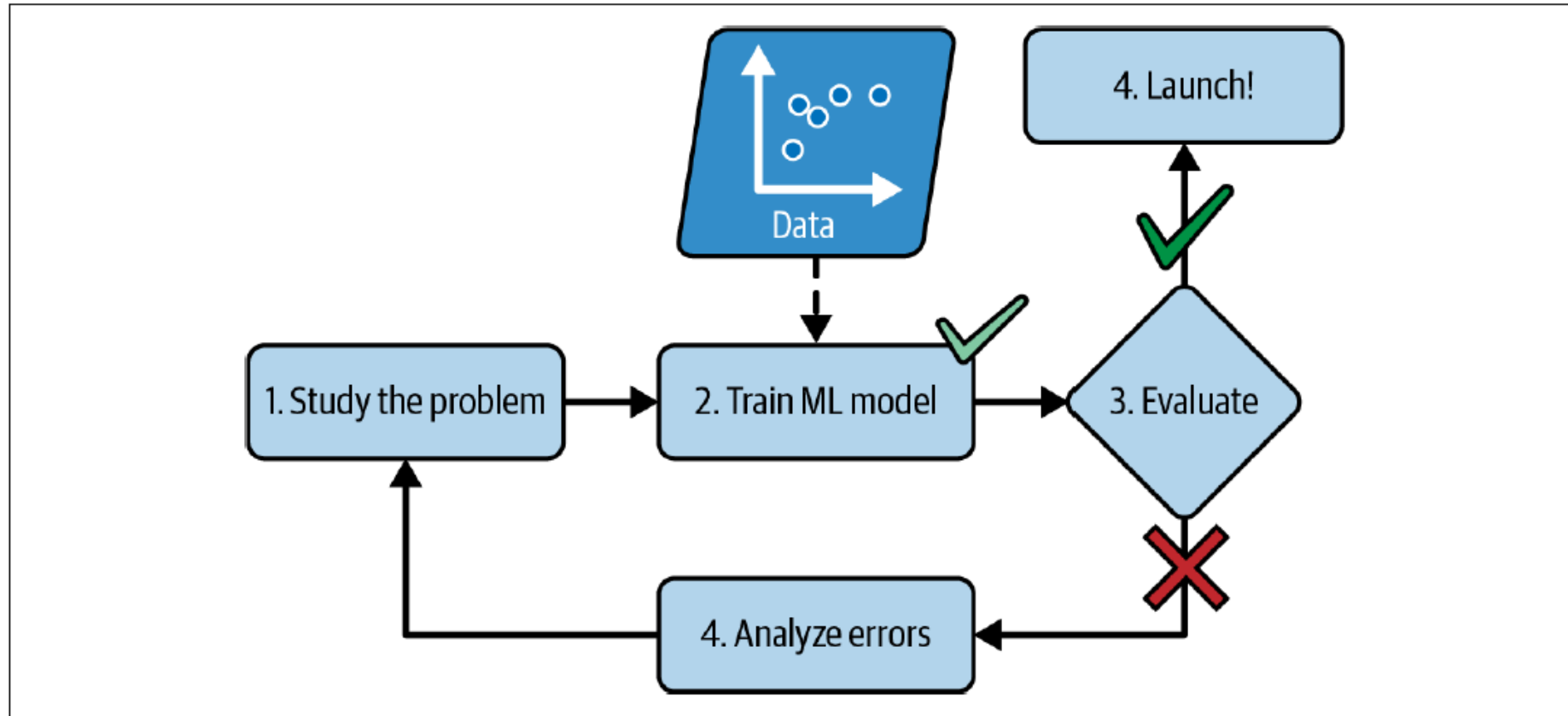
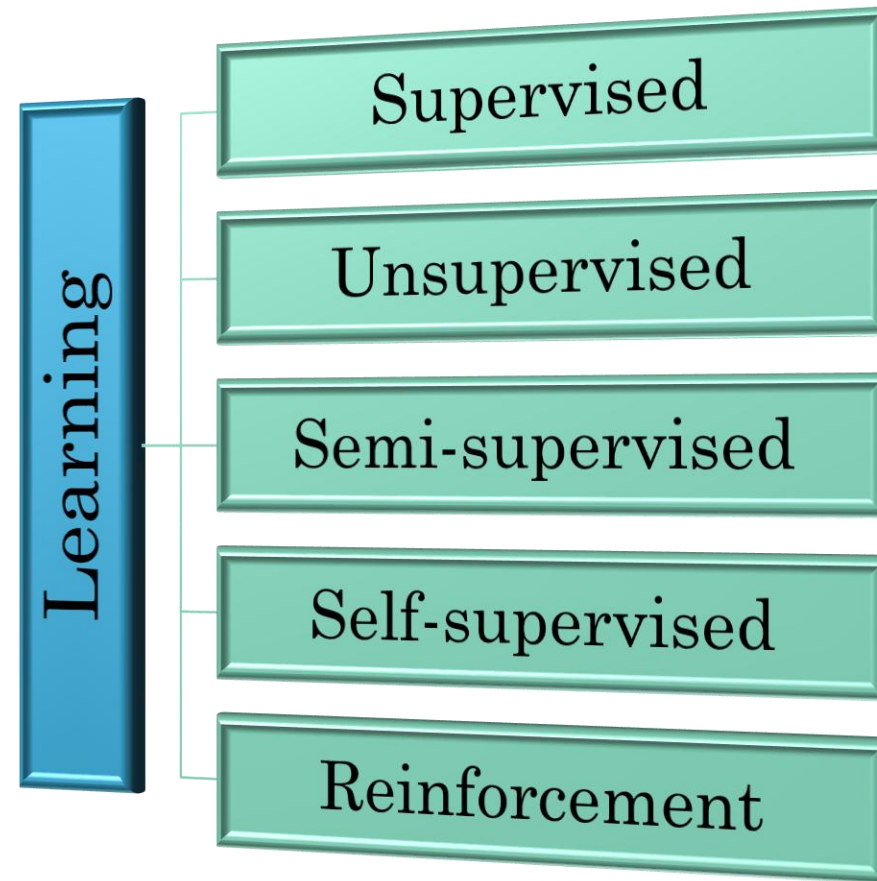


Figure 1-2. The machine learning approach

Learning Methods

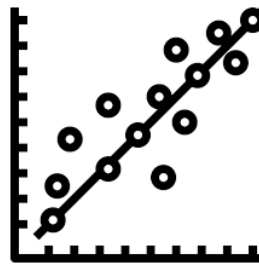


→ Read Book's Chapter 1

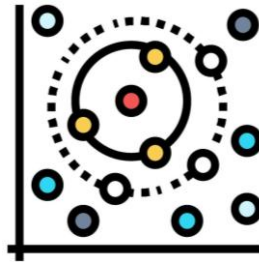
Simple Example

- Predict **Life Satisfaction** from **GDP per capita**
- Methods:

- Linear Regression (Model-based)



- k-nearest neighbors (Instance-based)



→ Book's Example 1-1